



NUMBER: 21-001-08 REV. B

GROUP: Transmission

DATE: February 15, 2008

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THIS BULLETIN SUPERSEDES TECHNICAL SERVICE BULLETIN 21-001-08 REV. A, DATED JANUARY 15, 2008, WHICH SHOULD BE REMOVED FROM YOUR FILES. THIS IS A COMPLETE REVISION AND NO ASTERISKS HAVE BEEN USED TO HIGHLIGHT REVISIONS.

NEW SOFTWARE HAS BEEN ADDED FOR THE JK MODELS.

THE StarSCAN® FLASH FILES FOR THIS BULLETIN MUST BE RETRIEVED FROM THE INTERNET.

StarSCAN® SOFTWARE LEVEL MUST BE AT RELEASE 8.04 OR HIGHER.

StarMOBILE DESKTOP CLIENT MAY ALSO BE USED TO PERFORM THIS PROCEDURE. StarMOBILE STANDALONE MODE MAY ALSO BE USED TO PERFORM THE FLASH.

SUBJECT:

Flash: Torque Converter Shudder Or 1-2, 2-3 or 3-4 Upshift Bumps

OVERVIEW:

This bulletin involves reprogramming the Powertrain Control Module (PCM) with new software and replacing the torque converter as required.

MODELS:

2007 (JK) Wrangler

NOTE: This bulletin applies to JK models built with a 42RLE automatic transmission (Sales Codes DFF, DGV, or DG2).

SYMPTOM/CONDITION:

The vehicle operator may experience one or more of the following symptoms:

1. Transmission Shudder - (42RLE)
 - a. This condition can only occur after the vehicle has been driven and the torque convertor is past the break in period. Torque Converter break in can be confirmed with the StarSCAN®.

- b. If experienced, the shudder may occur when the transmission temperature is between 38° C and 54° C (100° F and 130° F) during steady state driving with the torque converter in partial lock (EMCC) operation. The shudder feels like the vehicle is being driven over rumble strips.
2. 1-2, 2-3 or 3-4 Upshift bumps

DIAGNOSIS:

Using a Scan Tool (StarSCAN®) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all engine/transmission systems are functioning as designed. If DTC's are present record them on the repair order and repair as necessary before proceeding further with this bulletin.

If the vehicle operator describes the Symptom/Conditions and they can be verified, perform the appropriate Repair Procedure.

PARTS REQUIRED:

Qty.	Part No.	Description
1	04275086AB	Label, Authorized Modification
1	05093944AB	Kit, Torque Converter - (42RLE) w/revised friction (EMCC1) material

SPECIAL TOOLS / EQUIPMENT REQUIRED:

NPN	Battery Charger
CH9401	StarSCAN® Tool
CH9404D	StarSCAN® Vehicle Cable
CH9409	StarSCAN® Documentation Kit
CH9410	StarSCAN® Ethernet Cable, 12 ft.
CH9412	StarSCAN® Software Update Device Kit
	TechCONNECT PC or equivalent

REPAIR PROCEDURE - USING THE INTERNET TO RETRIEVE THE FLASH FILE:

- Does vehicle exhibit torque converter shudder with or without a 1-2, 2-3 or 3-4 Upshift Improvements?
 - Yes >>> Proceed to [Step #3](#).
 - No >>> Proceed to [Step #2](#).
- Reprogram the PCM **only** with the latest software using the flash procedure listed in the flash procedure below. Replacing the Torque Converter is not necessary if the vehicle only has the 1-2, 2-3 or 3-4 Upshift Improvements.
- Replace the Torque Converter (p/n 05093944AB) - Follow detailed service procedures listed in DealerCONNECT>TechCONNECT for Torque Converter replacement.

NOTE: The PCM must be flash reprogrammed with new software when a new torque converter is installed on the vehicle.

4. Reprogram the PCM with the latest software. Follow the detailed service procedures available in DealerCONNECT/TECHCONNECT, Refer To 8 - Electrical/Electronic Control Modules/Powertrain Control Module - Standard Procedure PCM/ECM Programming - Gas. **After PCM reprogramming, the following must be performed:**
 - a. Clear the Variable Line Pressure (VLP) Counters, found in the StarSCAN® Misc Function Menu. VLP Clear Counters must be completed on all models with a 42RLE transmission.
 - b. Clear any DTC's that may have been set in other modules due to reprogramming.
 - c. Perform the Quick Learn function, found in the StarSCAN® Misc Function Menu.
5. Type the necessary information on the "Authorized Modification Label" p/n 04275086AB and attach it near the VECI label.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Amount
21-33-01-93	Torque Converter, Transmission - Replace, PCM - Reprogram - 42RLE Equipped Vehicles (B)	2.5 Hrs.
21-33-01-96	Torque Converter, Transmission - Replace, PCM - Reprogram - 42RLE 4X4 Equipped Vehicles (B)	5.1 Hrs.
18-19-06-96	Module, Powertrain Control Module (PCM) - Reprogram - ONLY (B)	0.4 Hrs.

FAILURE CODE:

ZZ	Service Action
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